MANUFACTURE OF SOLID ELECTROLYTIC FUEL CELL

Publication number: JP4322061 (A)
Publication date: 1992-11-12
Inventor(s): OKUYAMA RYOICHI
Applicant(s): YUASA BATTERY CO LTD
Classification:
- international: ***H01M8/02; H01M8/12;*** **H01M8/02; H01M8/12;** (IPC1-7): H01M8/02; H01M8/12
- European:
Application number: JP19910083261 19910323
Priority number(s): JP19910083261 19910323

Abstract of **JP 4322061 (A)**

PURPOSE:To simplify manufacturing process by injecting a slurry including zirconia to which a stabilizer is added, onto an air electrode mold, so as to make a complex mold that has an electrolytic mold on the air electrode mold.
CONSTITUTION:After a slurry including metal oxide into a frame 4 having water supply ability so as to form an air electrode mold 5, a slurry including zirconia to which a stabilizer is added, is injected onto the air electrode mold 5, so as to form an electrolytic mold 6, which is dried and the frame 4 is thus removed, which is then baked and a solid electrolytic-air electrode complex having a solid electrolytic film 7 on the inside as well as an air electrode 8 on the outside, is formed.; Since the solid electrolytic film and the air electrode are integrated with each other, and since the thickness is controlled at a fixed level, the high performance of a solid electrolytic fuel cell is achieved, and since a fuel electrode mold 5 and the electrolytic mold 6 are formed by injecting the slurry into the frame 4, the manufacturing process can thus be simplified.